

# Vasumathi Narayanan

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| +18573343014 | Actively looking for Internships in Spring 2024/ Summer 2024|

## EDUCATION

**Northeastern University, Khoury College of Computer Sciences**, Boston, MA Jan 2023 - May 2025  
Master of Science in Computer Science GPA: 3.8/4.0

**Anna University, Madras Institute of Technology**, Chennai, India June 2016 - Apr 2020  
Bachelor of Engineering in Computer Science and Engineering. GPA: 9.53/10.0

## TECHNICAL SKILLS

Languages: Core Java, JavaScript, Python, R, C++.

Databases: Oracle SQL, MySQL, MongoDB, Sybase, Cassandra.

Web technologies: ReactJS, AngularJS, Spring Boot, HTML, CSS, JSP, AJAX, J2EE (Struts), Jboss, JQuery, PHP.

Other Skills: Git, Linux, UNIX, JUnit, Jira, Docker, Jenkins, Tibco EMS, JMS, Kafka, Maven, Gradle.

## WORK EXPERIENCE

**Khoury College of Computer Sciences**, Boston, MA Jan 2023 – Apr 2023  
Graduate Teaching Assistant

- Acted as a Project Manager and led 4 team's final project on building a collaborative Paint Application using GTK, SDL and client-server Architecture. Performed pull requests reviews against the software quality standards.
- Served as SME for designing and implementation. Tracked progress of deliverables against milestones & deadlines.
- Organized meetings for sprint plan, project scope, product design, feature improvements, debugging & testing.

**Citi**, Chennai, India Aug 2020 - Dec 2022  
Senior Software Engineer

- Developed a low-latency application for scheduled & bulk execution of swap deals by adopting software design principles & agile methodology; serves 80+ corporate giants across globe for dealing 500+ currency pairs.
- Resolved 5+ technical L3 issues in production and assisted team in creating 20+ change tickets for weekend deployments. Extended support during all phases of the software lifecycle (SDLC) and monitored them in JIRA.
- Owned a trade re-booking system for 500+ corporate clients, by adhering to rules formulated by FEDAI for charging fee amount. Initiated meetings with product managers to document 50+ test cases on fee calculations.
- Accelerated onboarding for 10+ new hires by providing KT on the J2EE, Spring Boot and application's setup.
- Managed a team of 5 to devise a robust application for automating 20000 SQL queries and to mitigate manual effort.
- Proposed a software solution to address complex input requests of various format (XML, JSON, CSV, txt) using dynamic REST API. Designed a table with all parameters to validate inputs and generated SP calls in backend.
- Enhanced user experience of an application to 90% by re-designing 7 user workflows and upgraded 3rd party JS files.

**Citi**, Chennai, India May 2019 - July 2019  
Software Engineering Intern

- Migrated a SOAP web service to an open source tomcat provided by spring boot framework (SOAP API), to reduce operation cost and elevate scalability. Created a YAML file to configure properties (DB EMS connections) for servers.
- Utilized Hikari as a connection pool to connect the JDBC to minimize latency of DB by 10%.
- Performed Unit testing for a microservice and improved test coverage to 95% and removed software vulnerabilities.

## PROJECTS

**Good Reads**, HTML, CSS, JavaScript, Cassandra, Spring Boot (JPA), OAuth Oct 2022 - Jan 2023

- Loaded JSON data of over 2 million books from Open Library API employing Spring JPA Cassandra.
- Developed an UI for displaying, adding and sharing books. Exposed REST APIs using Controllers and used spring security & OAuth authentication through Github login for maintaining user's logins.

**Trading Application**, HTML, CSS, JavaScript, MongoDB, Spring Boot, Docker, Jenkin Aug 2020 - Oct 2020

- Implemented full stack application to facilitate deal booking, viewing history, viewing status and delete or edit by making requests to the REST APIs for 20 Citi's internal clients.
- Utilized Yahoo Finance API to get rates for over 100 currency pairs viewing historical data as part of pre-trading.
- Exposed Portfolio API for clients to manage stocks bought/sold. Trade Advice REST API advice clients to BUY, SELL or HOLD for a specific stock by analyzing previous stock prices. Deployed app using Jenkins and Docker.